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TITLE: System and method for communicating over a non-continuous connection with a device on a network

Abstract Text (1):

A novel system and method for communicating over a non-continuous connection with an entity on a local area network (LAN) reduces the costs and risks associated with maintaining a continuous connection between the LAN and an external network, such as the Internet. The invention may use a trusted arbitrator as an intermediary between the LAN and external entities seeking to communicate with an entity within the LAN. Requests from external entities are routed to the trusted arbitrator, which contacts a connection entity within the LAN. The connection entity authenticates the contact and causes a connection to be established to the external network and thereby with the trusted arbitrator.

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Remer et al.

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(54) **SYSTEM AND METHOD FOR
COMMUNICATING OVER A NON-
CONTINUOUS CONNECTION WITH A
DEVICE ON A NETWORK**

(75) Inventors: **Eric B. Remer**, American Fork, UT (US); **David A. Kling**, Highland, UT (US); **David L. Remer**, Orem, UT (US)

(73) Assignee: **Intel Corporation**, Santa Clara, CA (US)

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(52) U.S. Cl. **709/229; 713/201; 709/225**

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709/229, 222, 250, 201; 705/79, 39, 34,
77; 713/201**

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Primary Examiner—David Wiley

Assistant Examiner—M. Delgado

(74) Attorney, Agent, or Firm—Pillsbury Winthrop LLP

(57) **ABSTRACT**

A novel system and method for communicating over a non-continuous connection with an entity on a local area network (LAN) reduces the costs and risks associated with maintaining a continuous connection between the LAN and an external network, such as the Internet. The invention may use a trusted arbitrator as an intermediary between the LAN and external entities seeking to communicate with an entity within the LAN. Requests from external entities are routed to the trusted arbitrator, which contacts a connection entity within the LAN. The connection entity authenticates the contact and causes a connection to be established to the external network and thereby with the trusted arbitrator.

22 Claims, 10 Drawing Sheets

